(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 31 December 2003 (31.12.2003)

PCT

(10) International Publication Number WO 2004/000499 A1

(51) International Patent Classification7:

B23K 9/133

(21) International Application Number:

PCT/KR2002/001186

(22) International Filing Date: 22 June 2002 (22.06.2002)

(25) Filing Language:

Korean

(26) Publication Language:

English

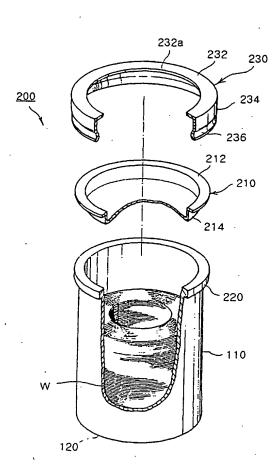
- (71) Applicant (for all designated States except US): HYUNDAI WELDING CO., LTD. [KR/KR]; 90-5, Jangheung-dong, Nam-ku, 790-240 Pohang-si, Kyungsangbook-do (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BAE, Hyo-Young [KR/KR]; Hyundai Welding Co., Ltd., 90-5, Jangheung-dong, Nam-ku, 790-240 Pohang-si, Kyungsang-book-do (KR). HA, Sung-Wook [KR/KR]; Han Kook

Fiber Drum Company, 104-1 Wonjik-ri, Kangku-myun, Youngduck-gun, 766-820 Kyungsangbook-do (KR).

- (74) Agent: SON, Won; C & S Patent and Law Office, C-2306 Daelim Acrotel, 467-6 Dogok-dong, Gangnam-ku, 135-270 Seoul (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,

[Continued on next page]

(54) Title: A PAIL PACK AND A WELDING WIRE PACKAGE USING IT



(57) Abstract: The present invention relates to a large capacity welding wire container for storing welding wire, in which an outer shell, an inner shell, a base plate and upper and lower fixtures are mostly made of paper as well as application of steel is minimized so that the container is readily discarded after exhaustion and coupled/disassembled, and a welding wire package using the same. The welding wire container comprises: an upper protrusion enlarged in diameter beyond the outer shell for structurally reinforcing an upper outer portion of the outer shell; a lid sized for covering the outer shell; and an upper fixture for fixing and wrapping the lid at an upper end of the outer shell to obtain structural reinforcement, wherein the upper fixture includes a flange extending inward along an outer edge of the lid, a supporting face folded from the flange and extending along an outer periphery of the upper protrusion and a folded groove arranged under the supporting face and having a diameter smaller than that of the upper protrusion.

WO 2004/000499 A1